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| APPLICATION NO. | FILING DATE                   | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------------------------|----------------------|---------------------|------------------|
| 10/562,866      | 05/16/2006                    | Bror Morein          | 72294-82303         | 6747             |
|                 | 7590 05/31/2007<br>OCKHOLM AB |                      | EXAM                | INER             |
| BOX 5581, LIN   |                               | <b>n</b>             | ARCHIE              | E, NINA          |
| STOCKHOLM       | •                             | II.                  | ART UNIT            | PAPER NUMBER     |
| SWEDEN          | •                             |                      | 1645                |                  |
|                 |                               |                      |                     |                  |
|                 |                               |                      | MAIL DATE           | DELIVERY MODE    |
|                 |                               |                      | 05/31/2007          | PAPER            |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| Office Action Summary    The MAILING DATE of this communication appears on the cover sheet with the correspondence address   Period for Reply  |
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| Nina A. Archie  The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status  1) Responsive to communication(s) filed on 29 December 2005.  2a) This action is FINAL.  2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-14 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) 1-14 are subject to restriction and/or election requirement.  Application Papers  9) The specification is objected to by the Examiner. |
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| 10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.  |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).   |
| 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.   |
| Priority under 35 U.S.C. § 119   |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  |
| a) ☐ All b) ☐ Some * c) ☐ None of:   |
| 1. Certified copies of the priority documents have been received.  |
| 2. Certified copies of the priority documents have been received in Application No   |
| 3. Copies of the certified copies of the priority documents have been received in this National Stage  |
| application from the International Bureau (PCT Rule 17.2(a)).  |
| * See the attached detailed Office action for a list of the certified copies not received.   |
| obstance detailed office action for a list of the certified copies not received.   |
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| Attachment(s)  |
| 1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date  |
| 3) Information Disclosure Statement(s) (PTO/SB/08)  5) Notice of Informal Patent Application   |

Application/Control Number: 10/562,866

Art Unit: 1645

## **DETAILED ACTION**

## Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group 1, claim(s) 1-14, drawn to an adjuvant composition.

The inventions listed as Group I do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

1. The technical feature of Group 1 is an adjuvant composition. The technical feature is anticipated by Cox et al WO 96/11711 "The Saponin preparations and use thereof in iscoms". Cox et al teach an adjuvant composition comprising a fraction of Quil A and least one other adjuvant (see pg. 3 lines 20-30, pgs. 4-5).

The technical feature of Group I, an adjuvant composition is known in the art. Group I lacks unity, because the technical feature of Group I is anticipated by the art and therefore not "special" within the meaning of PCT Rule 13.2 because it does not provide for a contribution that the claimed invention makes over the art.

## **Election of Species**

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

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2. If the Applicant elects Group I the applicant is required to elect an individual species from Species 1 and Species 2 of Group I.

Species 1-adjuvant;

- A) Naturally occurring saponin molecules derived from crude saponin extract of Quillaja saponaria Molina;
- B) Synthetic saponin molecules derived from crude saponin extract of Quillaja saponaria Molina;
- C) Semisynthetic saponin molecules derived from crude saponin extract of Quillaja saponaria Molina;
  - D) Saponin fractions from Quil A;
  - E) Cell wall skeleton;
  - F) Blockpolymers;
  - G) Hydrophilic block copolymers;
  - H) Trehalose dimycolate (TDM);
  - I) Lipopeptides;
  - J) LPS derivatives;
  - K) Lipid A from a bacterial species and derivatives thereof;
  - L) Monophosphoryl lipid A;
  - M) CpG variants;
  - N) CpGODN variants;
  - O) Endogenous human animal immunomodulators;
  - P) GM-CSF;
  - Q) IL-2;
  - R) Native adjuvant active bacterial toxins;
  - S) Modified adjuvant bacterial toxins;
  - T) Cholera toxin (CT);
  - U) CT subcomponent CTB;
  - V) CT subcomponent CTA1;
  - W) Thermoliable toxin (LT) of E. coli;
  - X) Bordetella pertussis (BP) toxin;

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Y) Filamentus hemagglutinin of BP;

Species 2-saponin fraction;

- A) Fraction B;
- B) Fraction C;

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103 (a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nina A. Archie whose telephone number is 571-272-9938. The examiner can normally be reached on Monday-Friday 8:30-5:00p.m.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner supervisor, Jeffrey Siew can be reached on 571-272-0787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nina Archie
Patent Examiner

GAU 1645

**REM 3B31** 

MARK NAVARRO